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Claims

1. A power converter for stepping down and converting alternating current (S) to direct current,

said power converter comprising:

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first and second input connections (T1, T2) for inputting output of said alternating current;

a first capacitor (C1) and a second capacitor (C2) interposed in series on a first electric connection line (L1) between said first input connection (T1) and said second input connection (T2), in order from a side of said first input connection;

a first diode (D1) interposed between the first capacitor and said second capacitor on said first electric connection line so that its forward direction is toward said second input connection;

a second diode (D1) interposed on a second electric connection line (L2) so that its reverse direction is toward said second input connection, said second electric connection line connecting a point between said first capacitor and said first diode on said first electric connection line, and said second input connection;

a first output connection (T3) for output of said direct current, which is connected between said first diode and said second capacitor on said first electric connection line; and

a second output connection (T4) for output of said direct current, which is connected to said second input connection.

- 2. The power converter as set forth in claim 1, further comprising:
- a Zener diode (ZD) interposed between said first output connection (T3) and said second output connection (T4) so that its forward direction is toward said first output

connection.

- 3. The power converter as set forth in claim 2, further comprising:

 a resistor (R) interposed on said first electric connection line (L1) on a side

 closer to said first input connection than a position of connection with said second

 electric connection line (L2).
 - 4. The power converter as set forth in claim 3, wherein said resistor is a thermistor.

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- 5. The power converter as set forth in claim 3, further comprising:
 a third capacitor (C3) connected between one end of said resistor (R) and said second input connection (T2).
- 15 6. The power converter as set forth in claim 5, wherein said one end of said resistor (R) is the end on the side of said second input connection (T2).
- 7. The power converter as set forth in claim 5, wherein
 20 said one end of said resistor (R) is the end on the side of said first input connection (T1).
 - 8. The power converter as set forth in claim 5, wherein a capacity ratio of said first capacitor to said third capacitor is set to about 1:1.

- 9. The power converter as set forth in claim 6, wherein a capacity ratio of said first capacitor to said third capacitor is set to about 1:1.
- The power converter as set forth in claim 7, wherein
 a capacity ratio of said first capacitor to said third capacitor is set to about 1:1.
- 11. The power converter as set forth in claim 1, further comprising:

 a resistor (R) interposed on said first electric connection line (L1) on a side closer to said first input connection than a position of connection with said second electric connection line (L2).
 - 12. The power converter as set forth in claim 11, wherein said resistor is a thermistor.
- 15 13. The power converter as set forth in claim 11, further comprising:

 a third capacitor (C3) connected between one end of said resistor (R) and said second input connection (T2).
- The power converter as set forth in claim 13, wherein
 said one end of said resistor (R) is the end on the side of said second input connection (T2).
- 15. The power converter as set forth in claim 13, wherein said one end of said resistor (R) is the end on the side of said first input connection (T1).

- 16. The power converter as set forth in claim 13, wherein a capacity ratio of said first capacitor to said third capacitor is set to about 1:1.
- 17. The power converter as set forth in claim 14, wherein
 5 a capacity ratio of said first capacitor to said third capacitor is set to about 1:1.
 - 18. The power converter as set forth in claim 15, whereina capacity ratio of said first capacitor to said third capacitor is set to about 1:1.
- 10 19. The power converter as set forth in any one of claims 1 to 18, wherein a capacity ratio of said first capacitor to said second capacitor is set to 1:1000.